

42. (New) The method of claim 34 wherein the function of the patient has been impaired by a stroke in the frontal lobe of the premotor cortex in the brain of the patient, and wherein selecting a stimulation site comprises choosing a stimulation site at the supplementary motor cortex anterior to the stroke in the frontal lobe of the premotor cortex.

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**REMARKS/ARGUMENTS**

Please consider the application in light of the above amendment. The Examiner is encouraged to contact the undersigned at (206) 287-3258 if there are any questions regarding this amendment.

Respectfully submitted,

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APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

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In the Claims:

34. (New) A method of effectuating a neural-function in a patient, comprising:  
selecting a stimulation site comprising a region of the cortex of the patient  
where a change in neural-activity is expected to occur to carryout a  
function of the patient;  
applying an electrical stimulation directly to the stimulation site using an  
electrode implanted in the patient at a location proximate to the  
cortex of the patient.
35. (New) The method of claim 34 wherein the function of the patient is a  
sense of smell, and wherein the stimulation site comprises a sensory region of the  
cortex related to the sense of smell.
36. (New) The method of claim 34 wherein the function of the patient is  
associated with effectuating a sense of touch, and wherein the stimulation site  
comprises a sensory region of the cortex related to touch.
37. (New) The method of claim 34 wherein the function of the patient is  
movement of a body part, and wherein the stimulation site comprises a motor region of  
the cortex related to movement of the body part.
38. (New) The method of claim 34 wherein the function of the patient is  
cognitive processing, and wherein the stimulation site comprises a region of the cortex  
related to the cognitive processing.

39. (New) The method of claim 34 wherein the function of the patient is memory, and wherein the stimulation site comprises a region of the cortex related to memory.

40. (New) The method of claim 34 wherein the function of the patient has been impaired by damage to the cortex, and wherein selecting the stimulation site comprises choosing a stimulation site adjacent to the damaged region of the cortex where neural-activity for carrying out impaired function occurred before damage occurred to the cortex.

41. (New) The method of claim 34 wherein the function of the patient has been impaired by a stroke in the frontal lobe of the premotor cortex in the brain of the patient, and wherein selecting a stimulation site comprises choosing a stimulation site at the premotor cortex anterior to the stroke in the frontal lobe.

42. (New) The method of claim 34 wherein the function of the patient has been impaired by a stroke in the frontal lobe of the premotor cortex in the brain of the patient, and wherein selecting a stimulation site comprises choosing a stimulation site at the supplementary motor cortex anterior to the stroke in the frontal lobe of the premotor cortex.